**ROCIMA™ 363 Biocide**  
Algicidal and Fungicidal Preparation for Dry-Film Protection of Coatings and Plasters

**General**

ROCIMA™ 363 Biocide is a dry film preservative for use in plasters, paints and wood coatings where permanent dry film protection is required on external surfaces subjected to severe weathering and on internal surfaces where high humidity is encountered.

ROCIMA 363 is a fluid, pumpable dispersion of active ingredients which is easy to handle, meter and incorporate into aqueous based systems and which provides a very broad spectrum of activity against fungi and algae.

ROCIMA 363 is primarily designed for use in water based systems; however it can be incorporated into solvent based systems where it is compatible with the final product and packaging.

ROCIMA 363 is a combination of carbendazim, octylisothiazolone and diuron.

**Physical Properties**

The following are typical properties of ROCIMA™ 363 Biocide; they are not to be considered product specifications.

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Flowable, greyish-white dispersion</td>
</tr>
<tr>
<td>Density 20°C</td>
<td>1.08 ± 0.05 g/mL ISO 2811-1</td>
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<tr>
<td>Viscosity: 20°C</td>
<td>Max. 100 KU ASTM D-562</td>
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<tr>
<td>Particle size</td>
<td>Max. 30 μm ISO 1524</td>
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**Miscibility/Solubility**

Miscible with water, immiscible with water insoluble solvents. Practically insoluble in water and organic solvents.

**Stability**

The activity will not be affected by short periods of temperatures up to 100°C during manufacturing, or by pH in the range 4 - 10.

**Applications/Directions for Use**

ROCIMA™ 363 Biocide is particularly suited to provide, at an optimised cost performance, algicidal and fungicidal protection to the coated exterior surfaces of buildings, which are subjected to severe weathering conditions. Such surfaces are often covered with dirt consisting of airborne particles of substances like soot from industry and internal combustion engines, soil and fertiliser from agriculture, pollen and other airborne debris. This dirt serves as substrate for microorganisms which have relatively modest demands.

ROCIMA 363 has two modes of action to protect plasters and paints. Firstly, it prevents the plaster or paint from serving as the substrate for contaminating microorganisms. Secondly, when the surface becomes wet through rain or condensation the controlled diffusion of the active ingredients into the wet phase occurs preventing the growth of microorganisms on the dirty surface layer.
If, due to faulty construction, the surfaces to be coated are permanently damp, remedial work must be done to correct this (e.g. with ROCIMA™ 103), before a successful application of ROCIMA 363 can be achieved using an economical and ecologically reasonable dose.

ROCIMA 363 must be blended homogeneously with the product to be protected. It is recommended that ROCIMA 363 is added at the beginning of the manufacturing process.

For optimal protection of the aqueous phase in containers from infestation of bacteria it is advisable to include an in-can preservative (e.g. ROCIMA 564, ROCIMA 551 or ROCIMA 518).

Should you encounter microbial problems or problems concerning special applications, please contact your Dow representative.

**Dosage**

The optimum dosage of ROCIMA™ 363 Biocide depends largely upon the amount of dirt to be expected on untreated surfaces and the potential of the local environment to contaminate the treated surface.

It will also be dependent on the susceptibility of the coating to fungal and algal growth.

The bioactive substances in ROCIMA 363 are irreversibly consumed in the prevention of growth of microorganisms, and hence a reliable estimate of the expected level of contamination is very important when deciding the optimum dosage of ROCIMA 363 to be used.

For this reason the concentration ranges listed below should be used for general guidance only:

- Plasters and fillers: ................................................................. 0.2 - 1.0%
- Coatings ............................................................................. 0.5 - 3.0%

In cases of exposure to extreme weather conditions or if the coating is subjected to continuous condensation or to rapid contamination with surface dirt, the dosage of ROCIMA 363 may have to be increased above the usual levels.

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

Paints treated with up to 0.50% of ROCIMA 363 are free of N-label but need a Risk Phrase R52/R53 on the can.

**Handling Precautions**

For product safety information, refer to the Safety Data Sheet (SDS).

Please refer to the Safety Data Sheet (SDS) of this product for precise handling instructions.

The processing and use of industrial chemicals requires 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
Store products in tightly closed original containers at temperatures recommended on the product label.

Disposal Considerations
Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user’s responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Biocidal Products Directive Compliance
ROCIMA™ 363 Biocide is a biocidal product intended for use in accordance with Product Type 7 (Film Preservation) of the Biocidal Products Directive 98/8/EC (BPD).

Product Stewardship
When considering the use of any Dow product in a particular application, review the latest Safety Data Sheet (SDS) and country-specific product label to ensure the intended use is within the scope of approved uses. Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice
Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including Safety Data Sheets (SDS), should be consulted prior to use of Dow products. Current Safety Data Sheets are available from Dow.
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