

Microbial Control

Technical Data Sheet

BIOBAN™ 200 Antimicrobial

Industrial microbiocide for use in coatings, building materials, adhesives and tackifiers

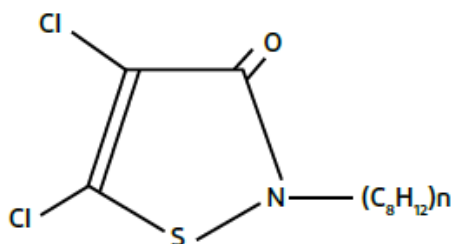
Regional product availability

Please check with your DuPont representative for specific country information.

Description

BIOBAN™ 200 Antimicrobial is a low VOC formulation 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. The active ingredient in BIOBAN™ 200 Antimicrobial is 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one, which is the same active ingredient as in the well proven ROZONE™ 2000 Antimicrobial. It provides the same broad spectrum activity with improved ease of formulation and similarly can be used in both exterior and interior applications.

Structure



Key benefits

- Broad spectrum activity: controls a wide range of fungi, algae, and bacteria
- Very low water solubility: provides long-term activity by resisting leaching
- Non-persistent in the environment: readily dissipated by biological and chemical means
- Flowable dispersion: easily incorporated into paint formulations
- Does not release formaldehyde
- Does not require zinc oxide for efficacy
- Effective in coatings and building products
- Low VOC formulation

Physical properties

The following are typical properties of BIOBAN™ 200 Antimicrobial; **they are not to be considered product specifications.**

Appearance:	Light blue dispersion
Composition:	Preparation of dichlorooctylisothiazolinone
Active ingredient (AI) concentration:	20%
Carrier solvent:	Mainly water
Viscosity (Brookfield) @ 20°C:	80 KU
Specific gravity @ 25°C (H2O = 1):	1.09

Applications and directions for use

BIOBAN™ 200 Antimicrobial is primarily designed for use in water-based systems; however, it can be used in solvent based systems depending on its compatibility with the final product and its packaging.

Recommended use levels of BIOBAN™ 200 Antimicrobial range from 0.12% to 0.57%, as supplied, on total weight of paint formulation.

The usage level required to obtain the desired degree of protection with BIOBAN™ 200 Antimicrobial depends on several factors. These include the climatic conditions where the paint will be applied, the type of paint produced, the condition of the surface being painted, and the number of coats of paint applied. For maximum protection we recommend using 1150 ppm active ingredient (0.57% product as supplied). Testing BIOBAN™ 200 Antimicrobial in customer applications is highly recommended.

Formulating techniques with BIOBAN™ 200 Antimicrobial

BIOBAN™ 200 Antimicrobial is a flowable dispersion that is easily incorporated into paint formulations. In principle, it can be added to the paint at any point in the paint preparation process.

Storage, handling and disposal

BIOBAN™ 200 Antimicrobial should be stored in tightly sealed original containers and preferably at room temperature. Protect from frost and heat.

If the product does freeze, it has to be mixed homogeneously after warming up and can then be used without any loss in effectiveness.

The procedures used for handling biocide solutions are similar to those used for handling concentrated acids and alkalis. The purpose is to prevent all eye and skin contact, including inhalation of mists, and thereby prevent possible injury and sensitization.

BIOBAN™ 200 Antimicrobial, as supplied, is corrosive to the skin and eyes (see the Toxicological Properties Section of the SDS for more information). To prevent skin or eye contact and the associated effects, we recommend the following personal protective equipment when handling these products:

- Chemical splash goggles
- Chemical-resistant elastomeric gloves (e.g., 16 mil nitrile - please contact DuPont for additional glove recommendations)

Note that chemical-resistant gloves are to protect against splash contact and are not intended for immersion protection.

Under open system conditions, we also highly recommend the additional use of the following personal protective equipment:

- Face shield (in addition to chemical splash goggles)
- Chemical-resistant apron
- Chemical-resistant elastomeric boots or over shoes

BIOBAN™ 200 Antimicrobial is a registered pesticide, please carefully read and follow the label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Safety data sheet

It is important that you review our BIOBAN™ 200 Antimicrobial Safety Data Sheet (SDS) before using the product.

DuPont SDS 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 OSHA Hazard Communication Standard, workers must have access to and understand SDS on 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 SDS on any hazardous products in their workplace.

DuPont sends SDS for all its products, whether or not they are considered OSHA-hazardous, to the “bill to” and/or “ship to” locations of all its customers upon initial shipment (including samples). If you do not have access to one of these SDS, please contact your local DuPont representative for an additional copy. Updated SDS are sent upon revision to all customers of record. In addition, SDS are sent annually to all customers receiving products deemed hazardous under the Superfund Amendments and Reauthorization Act.

SDS should be obtained from your suppliers of other materials recommended in this bulletin. DuPont is a member of the American Chemistry Council and is committed to ACC's Responsible Care¹ Program

Product stewardship

When considering the use of any DuPont 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. DuPont 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 DuPont products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer notice

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

¹ Responsible Care is a registered trademark of the American Chemistry Council, Inc.



Nutrition & Biosciences

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