



Nanobiomatters BactiBlock, S.L.  
Parque Tecnológico, C/ Louis Pasteur, 11 Nave-5  
46980 - PATERNA, (SPAIN)  
Tel. +034 96 131 86 28  
www.nanobiomatters.com

## Product Technical Information

### BactiBlock® 101 R4.47

BactiBlock® 101 R4.47 is an antimicrobial additive to be used by compounding into many polymeric materials. It is designed to be incorporated before, during or after the manufacturing process to impart antimicrobial activity to the manufactured products. BactiBlock® 101 R4.47 suppresses the growth of algae, mold, mildew, fungi and bacteria which cause unpleasant odors, discoloration, staining, deterioration or corrosion only. When incorporated into treated articles, this product does not protect users of any such treated article or others against food borne or disease causing bacteria, viruses, germs or other disease causing organisms. It can be used in the manufacture of polymer, paints, plastic and latex products.

BactiBlock® 101 R4.47 is a silver organobentonite manufactured using a patented and proprietary technology developed by Nanobiomatters. Silver content of BactiBlock® 101 R4.47 is 1,3%.

The additive may be incorporated into the finished product at up to 5.0% by weight or at least 0.1% for bulk plastics. Contact Nanobiomatters BactiBlock, S.L. to determine the appropriate amount of BactiBlock® 101 R4.47 for individual finished products.

#### PHYSICAL PROPERTIES

Form	Powder
Colour	White
Odour	Odourless
Bulk density	approx. 0,30 g/cm <sup>3</sup>
Decomposition temperature	~195 °C

#### Regulatory Information

The product and uses described herein may require local or global product registrations and notifications for chemical inventory listings, or for use in food contact materials, cosmetics or medical devices.

#### Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Material Safety Data Sheet (MSDS).

This document replaces all previous documents relating to this subject.

This declaration applies to the material as it leaves its production facilities and does not cover any additional substance subsequently included in a conversion process and does not cover any potential particle size change caused by a subsequent conversion process.

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