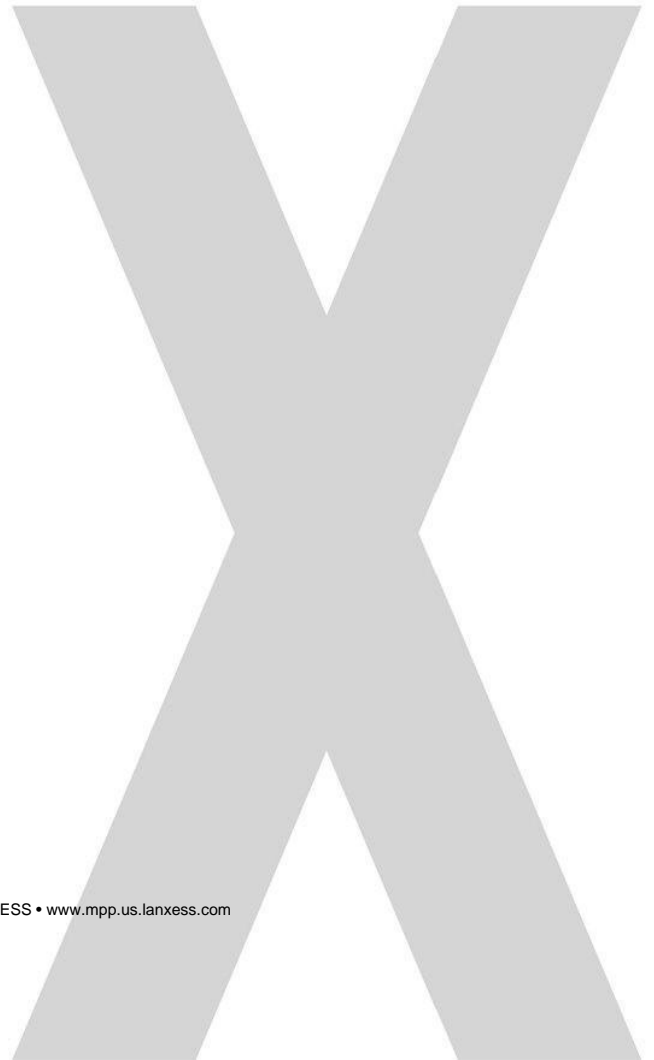




## Product Information

# Biochek<sup>®</sup> 8064 DOTP

Liquid biocidal product for the protection of plastics against bacteria and fungi



**Biochek<sup>®</sup> 8064 DOTP****EPA Registration No. 39967-131****Uses**

A liquid formulation based on DOTP plasticizer for the protection of plastics, particularly plasticized PVC (P-PVC), against fungi and bacteria.

**Chemical and physical data**

Active ingredient:	approx. 18 % Thiabendazole (TBZ) approx. 3.6 % Iodopropynylbutylcarbamate (IPBC)
Product description:	Beige color dispersion

**Specification**

The specification parameters can be found in the currently valid product specification.

**Characteristic data\***

Density:	1.056 g/cm <sup>3</sup>
Viscosity:	500 mPas at 20 °C (DIN 53019)
Boiling point:	< 185 °C (DIN 53171)
Pour point:	-24 °C (DIN ISO 3016)
Flash point:	220 °C (DIN EN ISO 2719)
Ignition temperature:	420 °C (EG A. 15 / DIN 51794)

\*These items are provided as general information only. They are approximate values and are not considered to be part of the product specifications.



## Biochek® 8064 DOTP

### Storage

Store properly in sealed original containers, the product has a shelf life of 24 months. Do not store the product at temperatures above 40 °C and below -5 °C.

### Application

Biochek® 8064 DOTP is intended to be used as a preservative for flexible PVC, but is also suitable for polymers, e.g. polyurethanes. It protects the polymer compound or articles made hereof from fungal infestation leading to discoloration and detrimental change in mechanical properties. In addition, Biochek® 8064 DOTP protects the polymer compound against undesirable discoloration due to the infestation with certain bacteria.

Prior to use of the product it is strongly recommended to homogenize the contents of the container, e.g. by stirring.

When incorporation Biochek® 8064 DOTP into a dry blend process, it is recommended that the Biochek® 8064 DOTP be added with the plasticizer. Biochek® 8064 DOTP can also be prepared as a premix with main plasticizer. Either way, the mixtures are added to the plastisol process.

Dosage level of the Biochek® 8064 DOTP will depend on the exposure of the plasticized PVC or polymer to moisture, organic matter, UV irradiation and microbial load. Effective dosage levels are between 0.20 % - 3.0 % (w/w) with respect to the final compound.

## Biochek® 8064 DOTP

### Example Application

PVC samples of a compound containing the following constituents were prepared by dry blending/calendaring:

Test Formulation containing 0.45 % w/w Biochek® 8064 DOTP	Reference without biocide
100 parts PVC resin (e.g. Vinnolit® S4170)	100 parts PVC resin (e.g. Vinnolit® S4170)
3 parts Irgastab® CZ 11	3 parts Irgastab® CZ 11
4 parts ESBO	4 parts ESBO
54 parts DINP	54 parts DINP
0.73 parts Biochek® 8064 DOTP	

An agar diffusion test (ISO 846B Standard) was performed on the samples in order to evaluate the fungicidal efficacy. Testing was performed in triplicate. Samples were either tested as received or after leaching:

Sample Description	Rating (unleached)	Rating (leached)
Sample as received	4 / 4 / 4	5 / 5 / 5
Sample containing 0.45 % Biochek® 8064 DOTP	0 / 0 / 0	0 / 0 / 0

#### Rating Scale

- 0 - No apparent growth under the microscope.
- 1 - No growth visible to the naked eye, but clearly visible under the microscope.
- 2 - Growth visible to the naked eye, covering up to 25 % of the test surface.
- 3 - Growth visible to the naked eye, covering up to 50 % of the test surface.
- 5 - Heavy growth, covering the entire surface of the test surface.

### Material Compatibility

As with any product, use of the products mentioned in this publication in a given application must be tested (including field testing, etc.) by the user in advance to determine suitability.



## Biochek® 8064 DOTP

### Directions for use

It is a violation of Federal law to use this product in a manner inconsistent with its labelling.

Biochek® 8064 DOTP is a liquid formulation containing Thiabendazole and IPBC specifically designed to protect flexible PVC systems, e.g. vinyl flooring, gaskets, tarpaulins, pool and pond liners, PVC plastisol coated textiles etc. against the growth of mold and mildew organisms. It may also be used as a preservative in other polymeric products, e.g. polyurethanes, silicones and polyether silicones.

The required dose level of Biochek® 8064 DOTP based on the total weight of the final treated product is in the range of 0.2 % - 3.0 % and depends on the environment the treated article is used.

Biochek® 8064 DOTP must not be used on items which come into contact with food stuff, medical devices, or children's products such as toys or clothing.

### Registration / Approval / Recommendation\*\*

Biochek® 8064 DOTP (EPA Registration No. 39967-131)

Up to date information on the registration status of our products can be obtained from:

**LANXESS Corporation**  
**Business Unit Material Protection**  
**Regulatory Affairs**  
**111 RIDC Park West Drive**  
**Pittsburgh, PA 15275 - 1112**

**\*\*Regulatory Compliance Information:** Some of the end uses of the products described in this bulletin must comply with applicable regulations, such as the FDA, NSF, USDA, and CPSC. If you have any questions on the regulatory status of these products, contact your LANXESS Corporation representative or the LANXESS Regulatory Affairs Manager in Pittsburgh, PA

### Health & Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., *material safety data sheets and product labels*. Consult your LANXESS Corporation representative or contact the LANXESS Product Safety and Regulatory Affairs Department in Pittsburgh, PA.



## Biochek® 8064 DOTP

### Precautions

Biochek® 8064 DOTP are supplied in the form of pellets. Contact of the product with the skin and the inhalation of dust should be avoided. The precautions generally recommended for handling chemicals should be observed, e.g. wearing of protective clothing, safety goggles, protective gloves and dust mask. If the product comes into contact with the skin, the affected area should be washed immediately with soap and plenty of water; splashes in the eyes should be rinsed out immediately with plenty of water. If irritation persists, medical attention should be obtained. Soiled clothing should be changed at once.

**The current safety data sheet should be observed. This contains further information on labelling, transport and storage as well as information on handling, product safety, toxicity and ecology.**

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

Note: The information contained in this bulletin is current as of the edition date. Please contact LANXESS Corporation to determine if this publication has been revised.

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