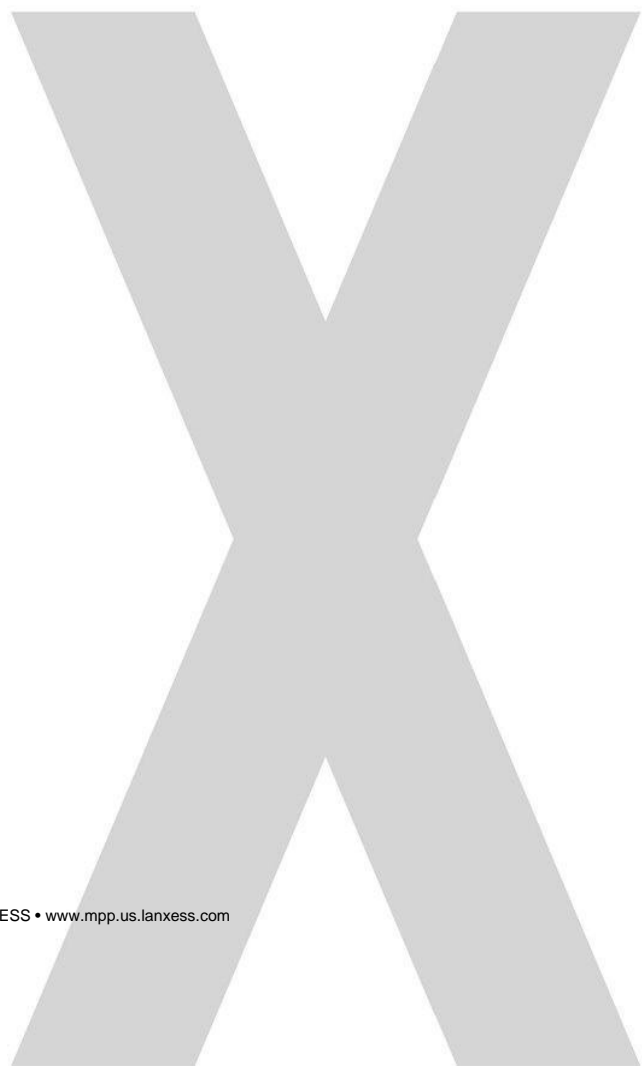




Product Information

Biochek[®] 8064



Biochek® 8064

Uses

Biocidal formulation for the protection of plastics, particularly plasticized PVC (P-PVC), against the infestation by fungi and discolouring bacteria.

Chemical and physical data

Composition:	Liquid formulation based on diisononyl phthalate (DINP) containing the actives 2-(4-Thiazolyl)-benzimidazole (Thiabendazole) and 3-Iodo-2-propinylbutylcarbamate (IPBC) in a concentration of 20.2 % - 23.0 % (w/w; sum of actives).
Product description:	Beige coloured, thixotropic dispersion.

Specification

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

Characteristic data*

Density:	1.044 kg/l at 20 °C (EG A.3 / DIN 51757)
Viscosity:	431,6 mPas at 20 °C (DIN 53019)
Boiling point:	> 210 °C (DIN 53171)
Pour point:	9 °C (DIN ISO 3016)
Flash point:	191 °C (DIN EN ISO 2719)
Vapour pressure:	7 hPa at 20 °C (EG A.4)
Ignition temperature:	410 °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.

Storage

Stored properly in sealed original containers, the product has a shelf life of 12 months. Do not store the product at temperatures above 40 °C and below -5 °C.

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Application

Biochek® 8064 is intended to be used as a preservative for particularly plasticized PVC, but is suitable for further polymers, e.g. polyurethanes, too. It protects the polymer compound or articles made hereof from fungal infestation leading to discoloration and detrimental change in mechanical properties. Moreover, Biochek® 8064 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.

Within the dry blend process Biochek® 8064 is preferably added simultaneously with the main plasticizer used. Alternatively, a premix of plasticizer and Biochek® 8064 can be prepared. In the plastisol process the simultaneous addition of Biochek® 8064 and the main plasticizer or the incorporation into the already prepared plastisol as a final addition is possible.

The required level of addition of Biochek® 8064 depends especially on the exposure of the plasticized PVC compound or article to moisture, organic deposition, UV irradiation and microbiological micro environment and has to be found effective at 0.35 % - 0.70 % (w/w) with respect to the final compound.

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	Reference without biocide
100 parts PVC resin (Vinnolit® S4170)	100 parts PVC resin (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	-



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The samples were subjected to agar diffusion testing according to ISO 846B standard in order to evaluate the resistance against fungal infestation. 6 replicates per sample (3 subjected to a leaching procedure, 3 used as received) were used and the following results were obtained:

	Rating (unleached)	Rating (leached)
Reference sample	0 / 0 / 0	0 / 0 / 0
Sample containing 0.45 % Biochek® 8064	3 / 3 / 3	3 / 3 / 3

The results above are based on the following rating scale:

0 = Insufficient resistance (sample is overgrown more than 10 %).

1 = Moderate resistance (sample is overgrown up to 10 %).

2 = Good resistance. No growth on sample.

3 = Good resistance. No growth on sample. Occurrence of a zone of inhibition on the nutrient medium.

Registration / Approval / Recommendation**

Please note that the product is not yet registered with the EPA.

****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



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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.

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